

Title (en)

HIGH GAIN TIGHTLY COUPLED DIPOLE ANTENNA ARRAY

Title (de)

GEKOPPELTES DIPOLANTENNEN-ARRAY MIT HOHER VERSTÄRKUNG

Title (fr)

RÉSEAU D'ANTENNES DIPÔLES À GAIN ÉLEVÉ ET À COUPLAGE ÉTROIT

Publication

EP 4033606 A1 20220727 (EN)

Application

EP 22152389 A 20220120

Priority

- US 202117495192 A 20211006
- US 202163140412 P 20210122

Abstract (en)

An antenna system including an array of conductors connected to a feed line, wherein the array is configured to (1) emit electromagnetic radiation in response to an input signal being input to the array through the feed line or (2) output an output signal to the feed line in response to electromagnetic radiation being received on the array; and a director disposed in front of the array, wherein the director has a first reactive load having a complex impedance that is tailored to increase a directivity of the antenna system by reactively loading the conductors.

IPC 8 full level

H01Q 1/28 (2006.01); **H01Q 19/22** (2006.01); **H01Q 19/30** (2006.01); **H01Q 21/08** (2006.01)

CPC (source: CN EP US)

H01Q 1/285 (2013.01 - CN); **H01Q 1/287** (2013.01 - EP US); **H01Q 1/38** (2013.01 - CN); **H01Q 1/50** (2013.01 - CN); **H01Q 3/02** (2013.01 - CN); **H01Q 9/0407** (2013.01 - US); **H01Q 19/10** (2013.01 - CN US); **H01Q 19/30** (2013.01 - EP); **H01Q 21/062** (2013.01 - CN US); **H01Q 21/08** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

EP 22152389 A 20220120; CN 202210078090 A 20220124; JP 2022007654 A 20220121; US 202117495192 A 20211006